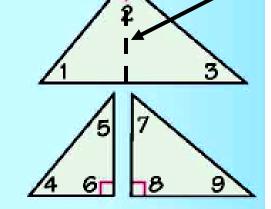
Hands-On Activity: Similarity in Right Triangles

 Draw one diagonal on a rectangular sheet of paper. Cut the paper on the diagonal to make two congruent right triangles.

Altitude

- In one of the triangles, use paper folding to locate the altitude to the hypotenuse.
 Cut the triangle along the altitude to make two smaller right triangles.
- Label the angles of the three triangles as shown.
- Compare the angles of the three triangles by placing the angles on top of one another.



- 1. Which angles have the same measure as $\angle 1$?
- 2. Which angles have the same measure as ∠2?
- 3. Which angles have the same measure as ∠3?
- 4. Based on your results, what is true about the three triangles?
- 5. Use the diagram at the right to complete the similarity statement. $\triangle RST \sim \triangle ? \sim \triangle ?$

